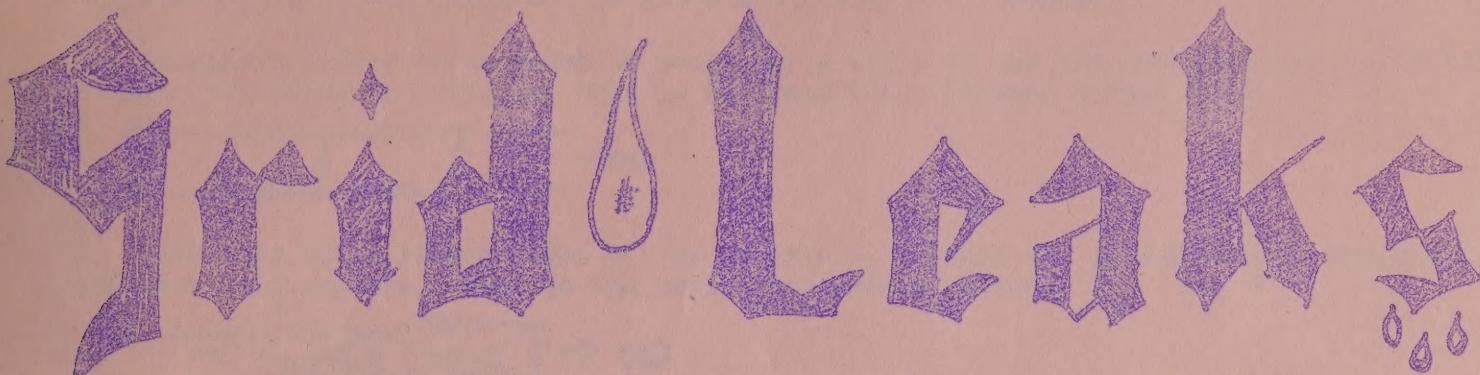


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NOVEMBER 1970 VOL. XI NO. 11

# SWAP & SHOP

IT HAS BEEN ANNOUNCED BY TERRY BABENKO K3RUR OUR SWAP AND SHOP COMMITTEE CHAIRMAN THAT THE HVARA ANNUAL SWAP AND SHOP WILL BE HELD ON SUNDAY MARCH 7th 1971 AT THE PIONEER HIGH SCHOOL ON STADIUM BLVD. JUST WEST OF STATE STREET IN ANN ARBOR MICHIGAN. ACTIVITIES WILL BE FROM 900 TO 1600 INCLUDING AN AUCTION, FOOD, PRIZES. BE SURE TO WATCH THIS SPACE FOR MORE INFORMATION, AND WHERE TO GET TICKETS ETC. MIKE DeFRANCISCO WB8BOI IS IN CHARGE OF PUBLICITY. THOSE INTERESTED IN HELPING OR ATTENDING SHOULD CONTACT TERRY AT 46859 ECORSE RD. BELLEVILLE, MICH., OR MIKE AT 1958 BURNS, YPSILANTI, MICHIGAN

\* \* \* \* \*

## NEW MEMBERS AND GUESTS

At the October 2nd meeting of the HVARA we were with joy and jubilation, informed of application by W5MBC/8 Jim Reynolds of Ann Arbor for membership. Immediate action was undertaken and Jim was voted in as a new member. Also gracing our presence were several guests, among whom were: Tom McEvry WA8DVB Adrain, Paul Trouten WA8RRT Monroe, Dale Williams WA8EFK Dundee, Jean Syler nc Belleville, Edward Drysage WA8SSV Garden City, Al Boehmlein W8BEZ and his two harmonics Robert and Dorothy, Don C. Gooding WN6FGZ Ypsilanti, Leo Carnevale nc Ann Arbor, and Robert C. Anderson W8KZM of Saline.

Jim Reynolds can be found most often checking into the Louisiana net on 75 mtrs using an 8' vertical antenna in his apartment.

## IN THIS ISSUE:

another scorching editorial.....some moot problems from the grand gentlemen, the professor.....the electronic house quiz.....news and such.....assorted graffiti and other goodies!

OUR NEXT GET TOGETHER WILL BE ON NOVEMBER SIXTH AT EIGHT PM AT THE RED CROSS BUILDING AT 2729 PACKARD ROAD ANN ARBOR, MICHIGAN. EVERYBODY IS INVITED TO ATTEND.

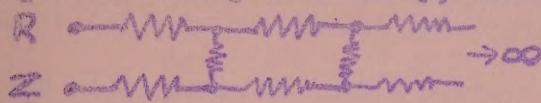
THIS MONTH'S PROGRAM WILL BE A DETAILED EXPLANATION OF THE VASCER SYSTEM USED BY THE STATE POLICE. OUR SPECIAL GUEST WILL BE TROOPER ROGER KIRKPATRICK OF THE YPSILANTI POST OF THE MICHIGAN STATE POLICE.





## THE PROFESSOR W13LID

1. Imagine a ladder arrangement of resistors a value of one ohm each arranged as in this diagram extending to infinity, what is the resistance between points R and Z ?



2. With some slight rearrangement of the resistors, picture the network below, again all resistors are one ohm. What is the resistance between Q and I ? Why ?



#3. You are locked in a magnetically shielded room. You have two identically looking bars, one marked M the other marked W. You are told that one is a magnet, the other is just a bar of soft iron. Can you tell which is the magnet and which is not?

DO YOU KNOW WHERE THE FOLLOWING ARE FOUND IN ELECTRONICS, EVEN THOUGH THEY HAVE HOMEY NAMES?

FRONT PORCH

BACK PORCH

BREEZEWAY

STAIRSTEP

RAMP

DOG HOUSE (two places)

CHOPPER

PEDESTAL

WINDOW

DOORKNOB

answers on next page.

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This space was reserved for something someone wanted to say, but failed to send in.  
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### EDITORIAL

A personal point of view from W13HHE  
An Easy Lesson on How to Defeat Yourself and Your Club

It seems that while many amateur operators bemoan the fact that the CB'ers have in many instances moved into what was the exclusive area of hams, that of public service, many of the same amateurs become very lethargic when the time comes when they are asked to participate or volunteer to help with various community activities, ergo, Boy Scout camp trips and races, parades, Halloween patrol, etc. The CB'ers on the other hand, despite their faults (we aren't perfect either) are active to the point of saturation, with several growing groups (REACT, ALERT) and an over abundance of mobile and portable gear. On the other side is the amateur who has thousands of dollars in world hopping kilowatts, towers and antennas that make WNV look like a cab dispatch shack, and accessories enough to start a store, plus what has been stashed in the attic or basement for the past six years gathering dust, but a look into the driveway reveals nothing but a car with call letter plates. No antennas, no rigs, no goodies, just the family chariot.

It would seem that if amateur radio operators wish to more fully participate in the activities of their community, to place the club name in front of the public eye, to improve their public image, to increase interest in ham radio, to interest new members in our fraternity, to in general spark some life into the veins of the amateur ranks, it would behoove us to improve our rolling stock. This will take a king-size effort.



from page 2

Many mobile installations need not be elaborate. A single VHF rig in many instances would be sufficient. Since our club has a two meter rig in the shack, it would be most indigenous for those licensed to operate on two to invest \$50 to \$150 in a small mobile rig. Surely with the thousands invested in medium wave gear, we could expend a little for this worthwhile enterprise.

Amateur radio seems to lack a certain quality of spontaneity. There seems to be a general lack of young men in our ranks. Personal observation shows that the bulk of amateurs are either under 21 or over 45. The CB ranks though, are bulging with alert able-bodies who I'm sure, with the proper guidance and instruction from the hams, would and could become a valuable asset of new A-1 operators. I know of several highly active hams who came from the ranks of CB. In the interest in a growing and improved rank and file amateur fraternity, I believe that we should refrain from continuous degradation of the other radio services, despite any real or imaginary prejudices, and actively solicit and encourage capable operators from other fields of communications to join the ranks of amateur radio.

Additionally, it would be advantageous to contact commercial engineers of radio/TV stations, who generally have a high degree of engineering prowess. These engineers generally only lack the opportunity or incentive to learn the code, which is generally the only "hang-up" as they already know enough of the technical side to pass most amateur exams. (my problem)

All this leads up to my final query; what have we done to entice other people into ham radio? What have we to do to improve our viability to serve in the public interest convenience and necessity? Its time to get up from our desks and into the field, and recruit.

Henry B. Ruh WN8HEE editor

equal space will be afforded responsible individuals who have a differing point of view.

\* \* \* \* \*

ANSWERS to the Professor: 1. 2.73 ohms. If you compute the resistance of each network, and then the resistance of the next network in parallel etc, you will notice that the total resistance keeps reducing by a smaller and smaller amount towards zero, but never reaching it.

2. The junctions of R1, R2, R3, R4 are equipotential. Resistor R5 has no current through it (its in the middle of a bridge circuit with a potential on each end which diminishes to zero in the center, thus no current flow. Resistor R5 could be replaced by any value including a short. The remainder of the network is in parallel with R5 and also has no effective value, so, remembering from last month, the entire bridge network comes out to a grand total of 1 ohm.

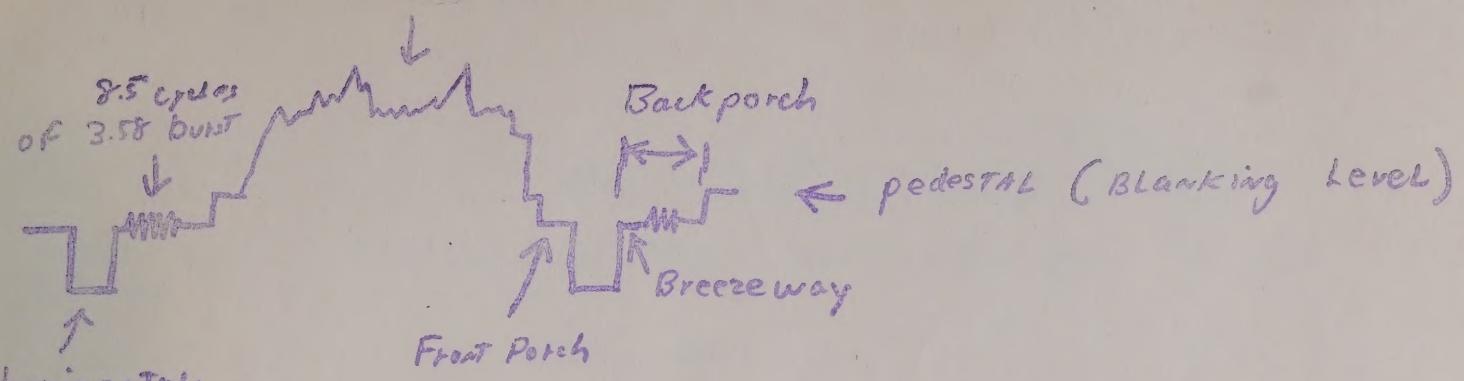
3. Place one end of bar M at the center of bar W. Slide the end of bar M to either end of bar W. If the magnetic pull between the bars increases bar W is the magnet, if the pull remains the same, bar M is the magnet.

Front porch, back porch, breezeway, pedestal refer to various portions of a video (TV) signal as shown in the diagram. Window is a test signal consisting of a white square in a black field. Chopper is a device which during the vertical interval of the TV signal provides a zero signal (white white) reference. A dog house is a small shack in which is housed the AM tower current meter and switch, as well as any phasing network necessary. It is also used in reference to the area on a vector scope where a specific color bar test signal should fall for proper phase (color) and saturation. Stairstep is a multiple gray scale picture, running from black to white and looks like a set of stairs on a waveform scope. Corknub, is a type of capacitor used in the HV section of TV and transmitters. Ramp, is a sawtooth test signal running from black to white in an even uniform rate of transition giving a black, gray, white shading on a TV screen. Diagram next page

P 17 E E

T V D E E





RUMOR: A local oscillator is being coupled with a local generator in a few months to produce a little background noise and static. Both male and female components can be found to be conducting signals at the meetings and elsewhere. We expect the heterodynes to be harmonics.

## ABOUT OUR CLUB

PRESIDENT: Mike DeFrancisco WB8BOI 1958 Burns, Ypsi  
HU37384

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HU24459

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Asst Editor Mark Kiehl WN8EOU 2623 Esch AA

CARTOONIST: Jeannie Syle.

and a whole lot of other good folks



CQ CQ CQ CQ DE W13 POW K

WASHTENAW CO. EC  
Terry Babenko K8RUR  
46859 Ecorse Rd. Belleville  
6977111

# FRONT PAGE NEWS

At our NOVEMBER 6th meeting the program will be on the VASCAR system of vehicle speed determinating equipment. Our special guest is trooper Roger Kirkpatrick of the Ypsilanti state police post. Trooper Kirkpatrick was the officer who walked in on the bank hold up of the Ypsilanti Savings Bank not too long ago. Also, he is the only trooper in our area who is a certified instructor in the VASCAR speed trap.

We also expect to be honored with the presence of Mr. John Palmer, who is the Washtenaw county Civil Defense director. Mr. Palmer and Terry Babenko K8RUR the Washtenaw Co. emergency co-ord. have been in consultation with each other with the conversations in the interest of ham/CD activities. Mr. Babenko has also been in contact with Sgt. Hill of the Ann Arbor police dept. It has been concluded that the Ann Arbor P. D. will have an antenna and coax and a 2 meter communicator ready for our use in 2 meter net and RACES activities, in the very near future.

On the question

What would you

recommend the parents do?

11450

### ANSWER: DR. J. R. HARRIS

It is difficult to answer because we do not know all the facts, and parents are bound to make up their own minds about what they want to do. There is no right or wrong answer. It depends upon the individual case, and it depends upon the parents' own feelings and the advice of their physician.

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## W A N T      A D S

FOR SALE: HEATH DX-60 xmitter 90 watts (can be cut to 75 watts for novice) only year and  $\frac{1}{2}$  old very good condition. desire cash but will trade for equal value equipment. HAROLD ZALD WB8DAA 1912 Dummore, Ann Arbor 663-6940

WANTED: 2 meter am XCVR Call persistantly if you have one to sell. Hack WA8OPC 482-0438

NEW      QTH

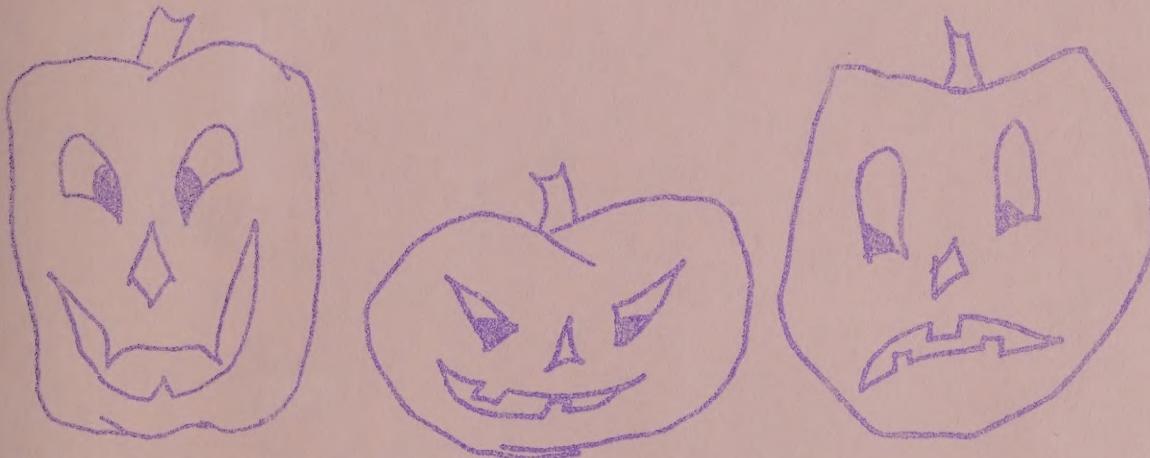
Frank J. Maynard, now reposing amoung the ivy and studious souls of collega. His tem-  
perary QTH is 232 Abbot Hall, East Lansing. Frank's call is WB8AEV should he be trying  
to communicate with the outside world.

### NET ACTIVITIES

TUESDAYS Wayne Co. 2 meter AREC Net 2000 EST 145.35 NCS WA8SSV Ed. Dryovage  
alt. WA8UJZ Lon Cork

WEDNESDAYS 6 meter net 2100 EST 50.4 NCS K8SKZ Stan West. Alt K8NHI Sam Stearn

THURSDAYS Wash. Co. AREC 2 meter net 1900 EST 145.26 NCS K8RUR Terry Bahenka  
2 meter net 2000 EST 145.5 NCS WA8MJT Mel Michaels Alt. WA8BKS  
Virg Joseph.



LATER THIS MONTH, WATCH FOR A NIGHT ATTACK ON AIR POLLUTION...A LOT OF LITTLE OLD LADIES FLYING AROUND THE SKY WITH BROOMS.



Happy Great  
Punkin Day!



CHEER UP BETTER DAYS ARE COMING. THEY'RE CALLED SATURDAY AND SUNDAY

